

Data sheet | Item number: 857-154

Basic relay; Nominal input voltage: 48 VDC; 1 changeover contact; Limiting continuous current: 6 A; Module width: 5 mm; Module height: 15 mm

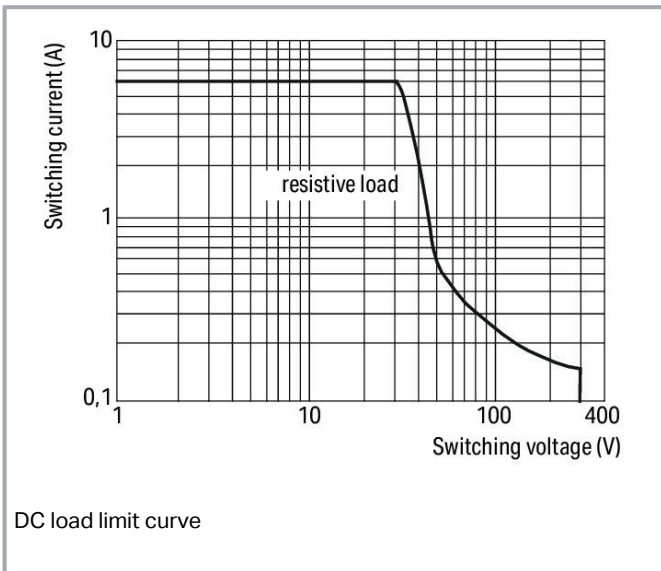
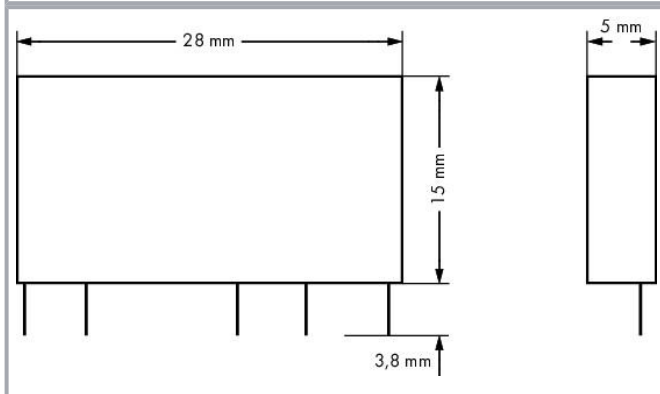
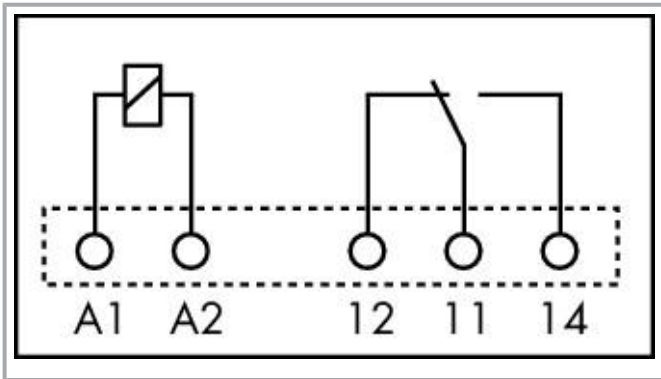


[www.wago.com/857-154](http://www.wago.com/857-154)



**i** Picture differs from the item.

Similar to picture



DC load limit curve

Subject to changes. Please also observe the further product documentation!

WAGO Corporation  
Germantown, WI 53022  
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222  
Email: [info.us@wago.com](mailto:info.us@wago.com) | Web: [www.wago.us](http://www.wago.us)

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## Item description

### Note:

- The 60 VDC basic relay must be used for 60 VDC, 110 VDC, 220 VDC and 115 VAC/DC, 230 VAC/DC relay modules.
- To protect the relay coils and contacts, inductive loads must be dampened with an effective protection circuit.
- 30 VDC switching voltages and 50 mA currents must not be exceeded for gold-plated basic relays. Higher switching power eventually evaporates the gold layer. The resulting deposits in the housing may reduce service life.

## Data

### Technical data

#### Control circuit

Nominal input voltage $U_N$	DC 48 V
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#### Load circuit

Number of changeover contacts	1
Contact material (relay)	AgSnO <sub>2</sub>
Limiting continuous current	6 A
Inrush current (resistive) (max.)	(AC) 20 A / 0.02 s
Switching voltage (max.)	AC 250 V
Switching power (resistive) (max.)	AC 1500 VA; DC (see load limit curve)
Switching capacity	AC-15: 3 A / AC 250 V; DC-13: 2 A / DC 24 V
Recommended minimum load	10 V / 10 mA; 24 V / 1 mA
Pull-in time (typ.)	8 ms
Drop-out time (typ.)	4 ms
Bounce time (typ.)	3.5 ms
Electrical life (NO; resistive load; 23 °C)	50 x 10 <sup>3</sup> switching operations
Mechanical life	5 x 10 <sup>6</sup> switching operations
Switching frequency with/without load (max.)	6 min <sup>-1</sup> / 180 min <sup>-1</sup>

#### Safety and protection

Dielectric strength, control/load circuit (AC, 1 min)	4 kVrms
Dielectric strength, open contact (AC, 1 min)	1 kVrms
Protection type	IP20

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## Physical data

Width	5 mm / 0.197 inch
Height from the surface	15 mm / 0.591 inch
Depth	28 mm / 1.09 inch

## Mechanical data

Mounting type	Pluggable module
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## Material data

Weight	4.7 g
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## Environmental requirements

Surrounding air temperature (operation at $U_N$ )	-40 ... 85 °C
Surrounding air temperature (storage)	-40 ... 85 °C
Relative humidity	5 ... 85 % (no condensation permissible)
Operating altitude (max.)	2000 m

## Standards and specifications

Standards/Specifications	EN 61810-1 EN 61373 VDE UR
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## Commercial data

Product Group	6 (Interface Electronics)
Packaging type	BOX
Country of origin	DE
GTIN	4050821077725
Customs tariff number	8536490080

## Approvals / Certificates

### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL	UL 508	E340707

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Underwriters Laboratories Inc.



## Downloads

### Documentation

#### Bid Text

857-154 doc - Datei	Nov 29, 2018	doc 27.1 kB	Download
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857-154 X81 - Datei	Feb 19, 2019	xml 4.3 kB	Download
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#### Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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## CAD files

### CAE data

EPLAN Data Portal 857-154	URL	Download
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WSCAD Universe 857-154	URL	Download
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ZUKEN Portal 857-154	URL	Download
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### CAD data

2D/3D Models 857-154	URL	Download
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 857-154 Basic relay; Nominal input voltage: 48 VDC; 1 changeover contact; Limiting continuous current: 6 A; Module width: 5 mm; Module height: 15 mm	URL	Download
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## Installation Notes

### Installation



Removing a relay via ejector.

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